

**IN THE TITLE:**

Please amend the title as follows:

~~DETERMINING THE POSSIBILITY OF ADVERSE EFFECTS ARISING  
FROM A CODE CHANGE~~ SYSTEM AND METHOD FOR DETERMINING THE  
POSSIBILITY OF ADVERSE EFFECT ARISING FROM A CODE CHANGE IN A  
COMPUTER PROGRAM

## IN THE SPECIFICATION:

Please amend page 2, lines 1-15 of the specification as follows:

~~Some of the set of classes within a computer program are important in the sense that the most useful information about the software can be derived from these classes alone. The important classes within the software are identified, as well as any dependent classes. Test cases are defined and associated with all classes. A code change for a class invokes the relevant test case or cases being run. The corresponding test case or cases for any dependent class are also run. If they run successfully (in the sense that the expected results arise), then it is highly likely that the changes introduced in the first class are not affecting the correct execution of the dependent classes.~~

~~The key, therefore, is the ability to suggest which classes would get affected if the behavior of a given class is changed. A class can potentially get affected if it depends on a class that is changed. The dependency can be because it directly refers to the class being changed, or indirectly because it consumes data that is generated or modified by the other class.~~

The invention provides a method for determining the possibility of adverse effect arising from a code change in a computer program. The method identifies important classes within a computer program. The method determines, directly and indirectly, dependent classes of the important classes. The important classes comprise superclasses of the directly and indirectly dependent classes. The method associates test cases with the important classes and with the directly and indirectly dependent classes. For a given code change to a first important class, the method runs all test cases associated with the first important class and associated with dependent classes of the first important class,

and indicates the possibility of an adverse effect if any run test case fails.